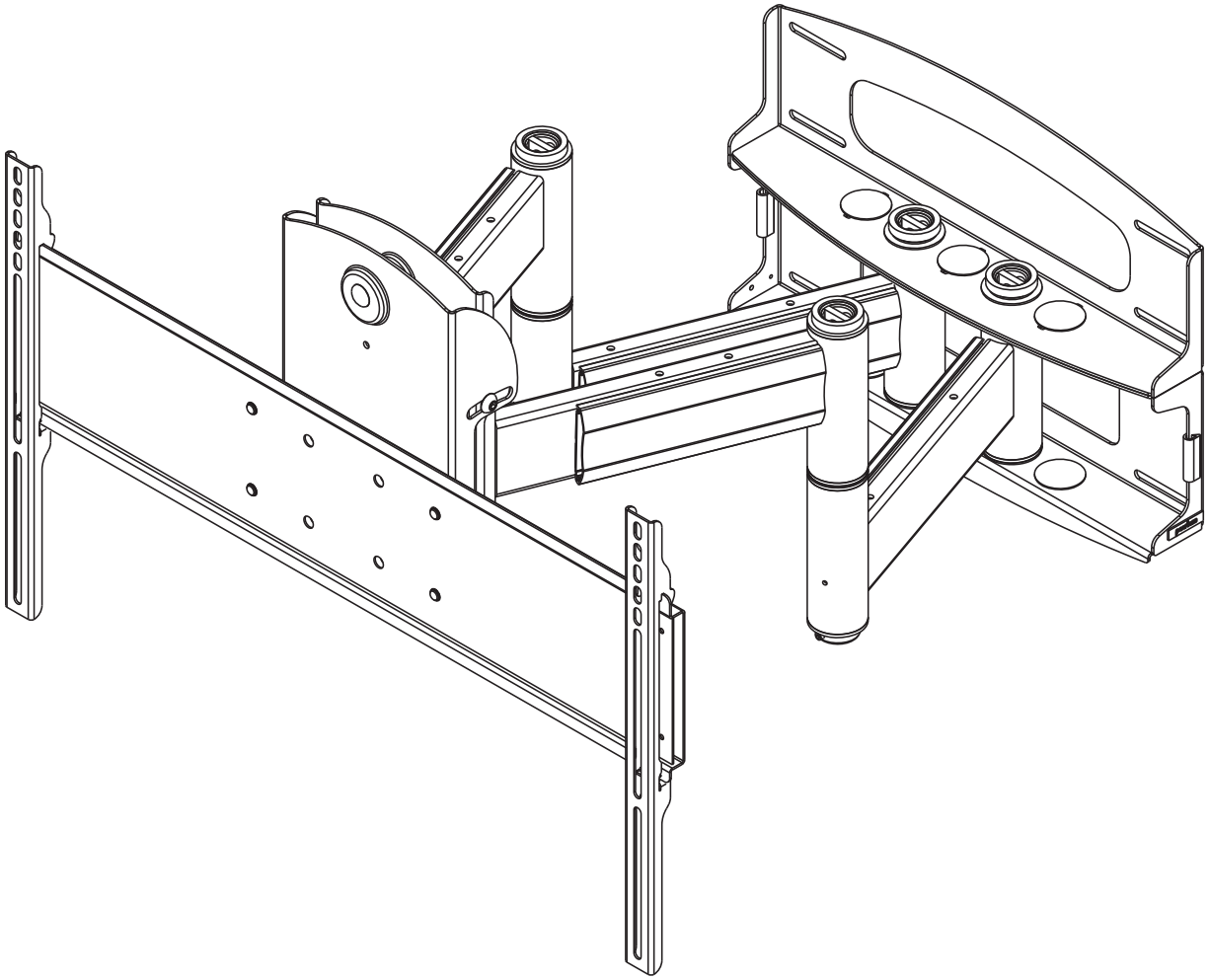
peerless-AV

Installation and Assembly - Universal Articulating Swivel Double-Arm for 42" - 65" Plasma Screens	**Models: PLAV70-UNL, PLAV70-UNL-S, PLAV70-UNLP, PLAV70-UNLP-S**

c UL us LISTED

Max UL Load Capacity:
200 lb (91 kg)



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ISSUED: 06-05-06 SHEET #: 202-9142-7 06-27-11

NOTE: Read entire instruction sheet before you start installation and assembly.

⚠ WARNING

- Do not begin to install your Peerless product until you have read and understood the instructions and warnings contained in this Installation Sheet. If you have any questions regarding any of the instructions or warnings, for US customers please call Peerless customer care at 1-800-865-2112, for all international customers, please contact your local distributor.
- This product should only be installed by someone of good mechanical aptitude, has experience with basic building construction, and fully understands these instructions.
- Make sure that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.
- Never exceed the Maximum Load Capacity. See page one.
- If mounting to wood wall studs, make sure that mounting screws are anchored into the center of the studs. Use of an "edge to edge" stud finder is highly recommended.
- Always use an assistant or mechanical lifting equipment to safely lift and position equipment.
- Tighten screws firmly, but do not overtighten. Overtightening can damage the items, greatly reducing their holding power.
- This product is intended for indoor use only. Use of this product outdoors could lead to product failure and personal injury.
- This product was designed to be installed on the following wall construction only;

WALL CONSTRUCTION	HARDWARE REQUIRED
• Wood Stud	Included
• Wood Beam	Included
• Solid Concrete	Included
• Cinder Block	Included
• Metal Stud	Do not attach except with Peerless Metal Stud Accessory Kit - ACC415; (not evaluated by UL)
• Brick	Contact Qualified Professional (not evaluated by UL)
• Other or unsure?	Contact Qualified Professional

Tools Needed for Assembly

- stud finder ("edge to edge" stud finder is recommended)
- drill
- 7/32" drill bit for wood studs
- 3/8" masonry drill bit for concrete
- 7/16" socket wrench with extension (recommended)
- level
- phillips screwdriver
- 3/4" open-end wrench

Accessories

- External Wall Plate (WSP716, WSP716-S, WSP724, WSP724-S) (Metal Stud not evaluated by UL)

Table of Contents

Parts List....3

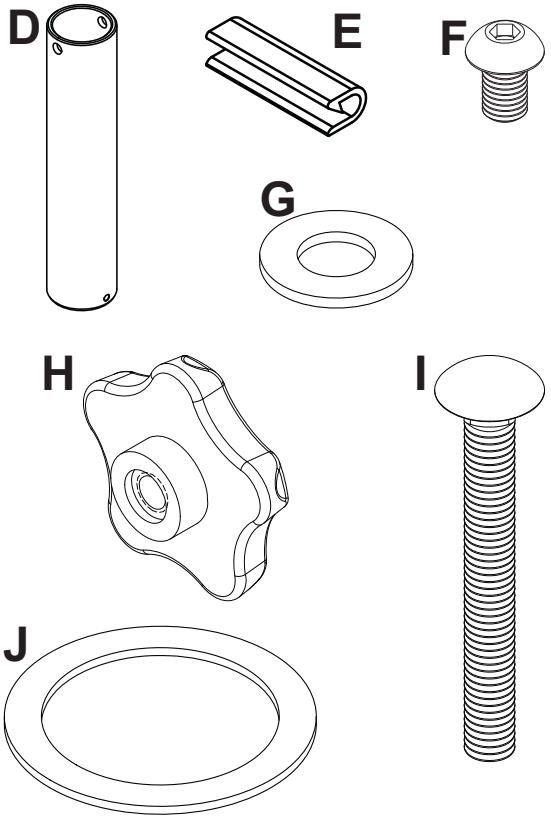
Installation to Double Wood Stud Wall....5

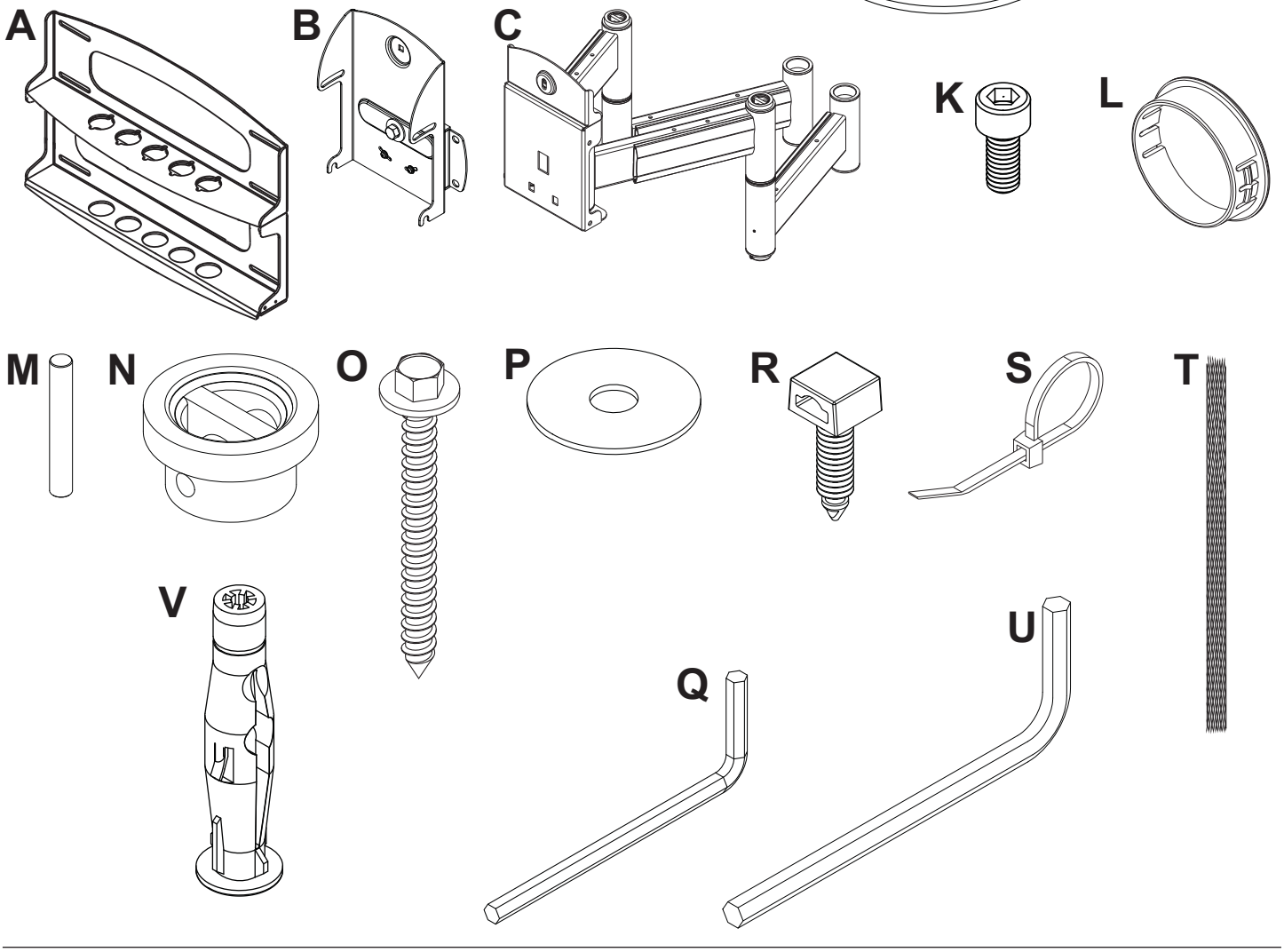
Installation to Solid Concrete or Cinder Block....6

Wall Arm Parts List

	Description	Qty	PLAV70-UNL PLAV70-UNLP Part #	PLAV70-UNL-S PLAV70-UNLP-S Part #
A	wall plate	1	201-1040	201-4040
B	tilt-roll assembly	1	201-1042	201-4042
C	arm assembly	1	201-1044	201-4044
D	wall support arm axle	2	201-1041	201-1041
E	vinyl trim	3	600-1012	600-1012
F	M10 x 1.5 x 15 mm screw	8	520-9262	520-9262
G	.062" nylon washer	1	540-1074	540-1074
H	tilt adjustment knob	1	560-0108	560-0108
I	carriage bolt 3/8"-16 x 3.25"	1	520-1315	520-1315
J	.062" delrin washer	4	540-1070	540-1070
K	#8-32 x .375" socket head screw	2	520-1210	520-1210
L	plastic finishing cap	6	590-1123	590-1123
M	holding pin	2	580-1166	580-1166
N	retainer plug	2	590-1007	590-1007
O	5/16 x 3" wood screw	8	520-1243	520-1243
P	.068" metal washer	8	540-1063	540-1063
Q	9/64" allen wrench	1	560-9728	560-9728
R	cable management clips	8	590-1166	590-1166
S	cable tie	8	590-1168	590-1168
T	36" polyester mesh sleeve	2	600-1015	600-1015
U	6 mm allen wrench	1	560-9716	560-9716
V	concrete anchor	8	590-0321	590-0321

Some parts may appear slightly different than illustrated.



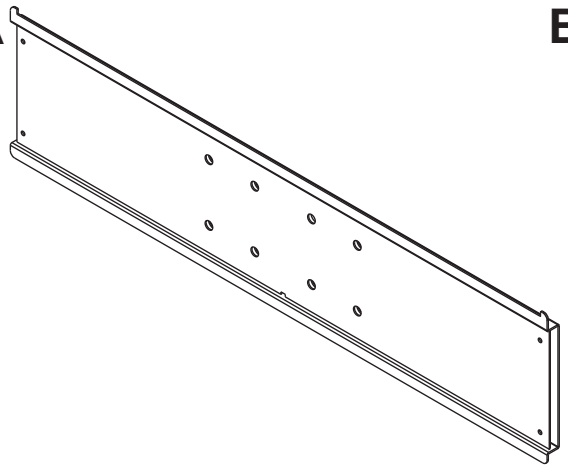


ISSUED: 06-05-06 SHEET #: 202-9142-7 06-27-11

Adapter Bracket Parts List

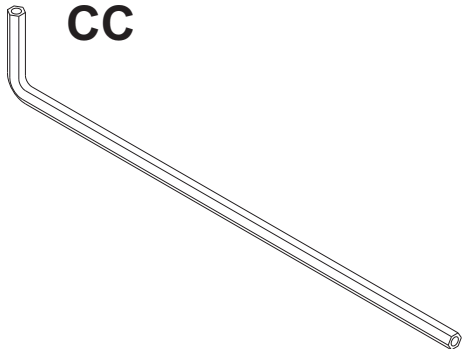
Description	Qty	PLAV70-UNL Part #	PLAV70-UNL-S Part #	PLAV70-UNLP Part #	PLAV70-UNLP-S Part #
AA adapter bracket	1	201-1110	201-4110	201-1110	201-4110
BB shallow adapter bracket	2	201-1511	201-4511	201-1514	201-4514
CC allen wrench	1	560-9646	560-9646	560-0072	560-0072

AA

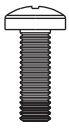


BB

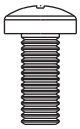
CC



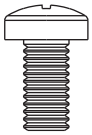
Phillips Adapter Bracket Fasteners



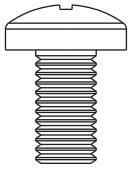
M4 x 12 mm (6)
504-9013



M5 x 12 mm (4)
520-1027



M6 x 12 mm (4)
520-1128

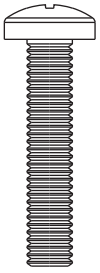


M8 x 16 mm (6)
520-9257

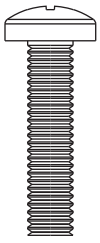
M6 x 20 mm (4)
520-9402

M5 x 25 mm (4)
520-9543

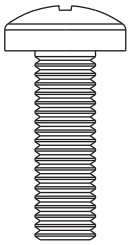
M4 x 25 mm (4)
504-1015



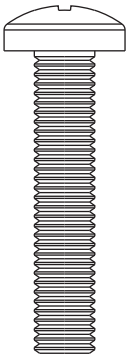
M6 x 30 mm (4)
510-9109



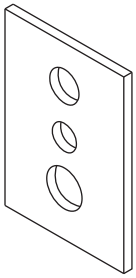
M6 x 25 mm (4)
520-1208



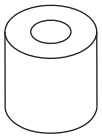
M8 x 25 mm (4)
520-1031



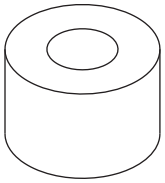
M8 x 40 mm (4)
520-1136



multi-washer (6)
580-1036



I.D. .22" (5.6 mm) (4)
540-1057



I.D. .34" (8.7 mm) (4)
540-1059

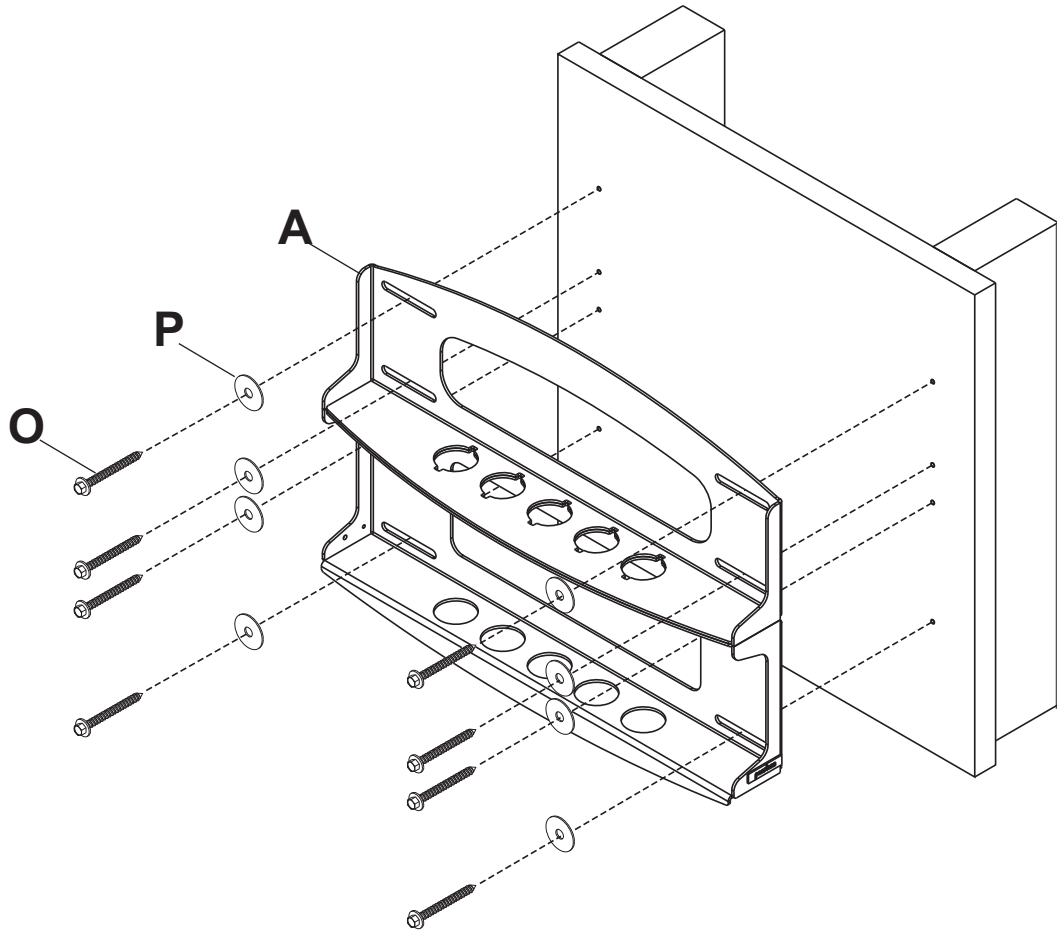
Installation to Wood Stud Wall

⚠ WARNING

- Installer must verify that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.
- Tighten wood screws so that wall plate is firmly attached, but do not overtighten. Overtightening can damage the screws, greatly reducing their holding power.
- Never tighten in excess of 80 in. • lb (9 N.M.).
- Make sure that mounting screws are anchored into the center of the stud. The use of an "edge to edge" stud finder is highly recommended.
- Hardware provided is for attachment of mount through standard thickness drywall or plaster into wood studs. Installers are responsible to provide hardware for other types of mounting situations (not evaluated by UL).

1 Wall plate (**A**) can be mounted to two studs that are 16" apart. Use a stud finder to locate the edges of the studs. Use of an edge-to-edge stud finder is highly recommended. Based on their edges, draw a vertical line down each stud's center. Place wall plate on wall as a template. The top mounting slots should be located .43" below the desired screen center. Level plate, and mark the center of the eight mounting holes. Make sure that the mounting holes are on the stud centerlines. Drill eight 7/32" dia. holes 3" deep. Make sure that the wall plate is level, secure it using eight 5/16 x 3" wood screws (**O**) and washers (**P**).

Skip to step 2 on page 7.



Installation to Solid Concrete or Cinder Block Wall

⚠ WARNING

- When installing Peerless wall mounts on cinder block, verify that you have a minimum of 1-3/8" of actual concrete thickness in the hole to be used for the concrete anchors. Do not drill into mortar joints! Be sure to mount in a solid part of the block, generally 1" minimum from the side of the block. Cinder block must meet ASTM C-90 specifications. It is suggested that a standard electric drill on slow setting is used to drill the hole instead of a hammer drill to avoid breaking out the back of the hole when entering a void or cavity.
- Concrete must be 2000 psi density minimum. Lighter density concrete may not hold concrete anchor.
- Make sure that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.

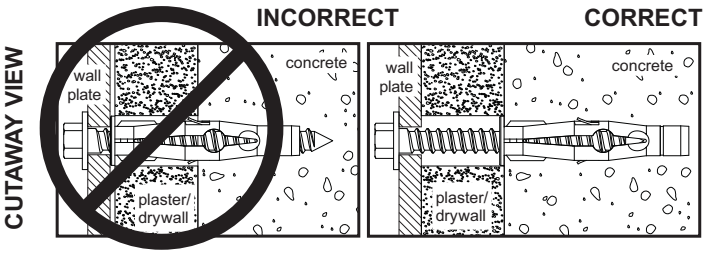
1 Use wall plate (**A**), making sure that it is level, as a template to mark holes. The top mounting slots should be located .43" below the desired screen center. Use the masonry bit to drill 3/8" (10mm) dia. holes to a minimum depth of 3" (76 mm). Insert anchors (**V**) in holes flush with wall as shown (right). Place wall plate (**A**) over anchors (**V**) and secure with 5/16 x 3" wood screws (**O**) and washers (**P**).

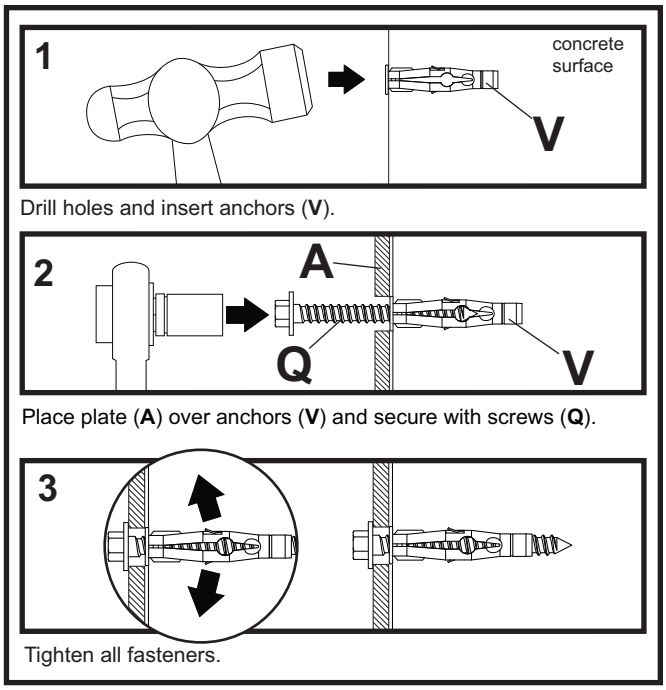
⚠ WARNING

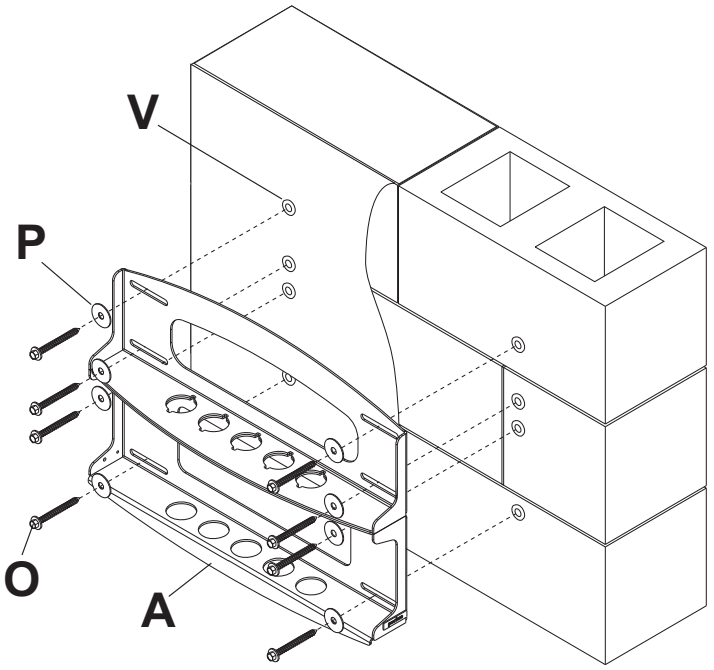
- Tighten wood screws so that wall plate is firmly attached, but do not overtighten. Overtightening can damage screws, greatly reducing their holding power.
- Never tighten in excess of 80 in • lb (9 N.M.).

⚠ WARNING

- Always attach concrete expansion anchors directly to load-bearing concrete.
- Never attach concrete expansion anchors to concrete covered with plaster, drywall, or other finishing material. If mounting to concrete surfaces covered with a finishing surface is unavoidable (not evaluated by UL), the finishing surface must be counterbored as shown below. If plaster/drywall is thicker than 5/8", custom fasteners must be supplied by installer (not evaluated by UL).







ISSUED: 06-05-06 SHEET #: 202-9142-7 06-27-11

⚠ WARNING

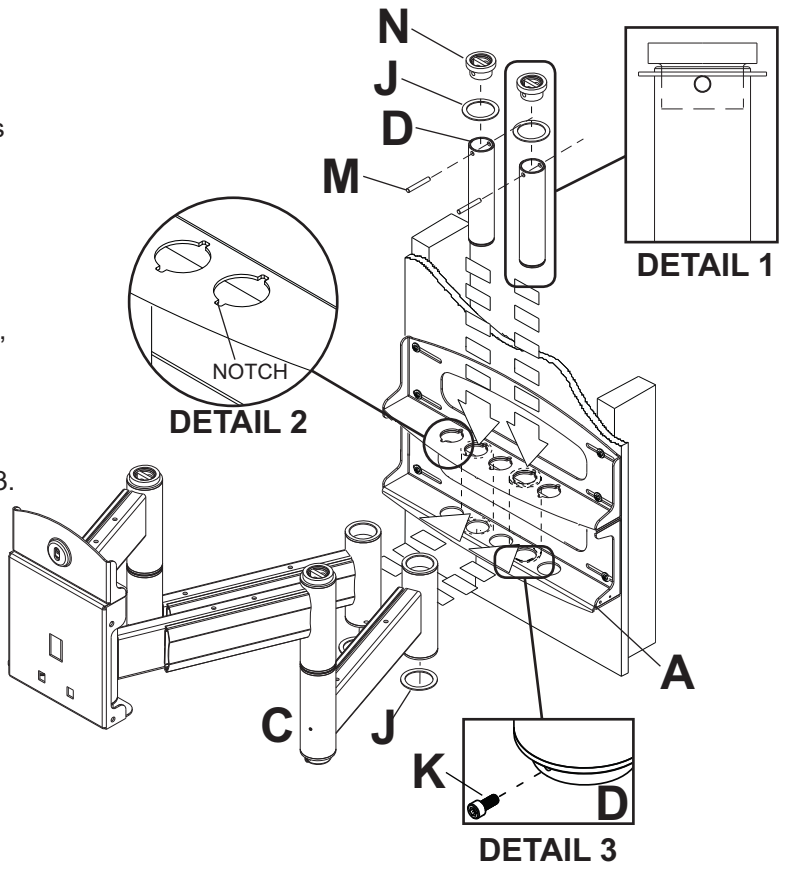
- If you are uncertain that product is properly installed, call customer care.

2 **Note: There are three mounting positions. The center position is shown right. Arm assemblies must be mounted with one mounting hole separating them.** Slide washers (**J**) over wall support arm axles (**D**). Next, insert plastic caps (**N**) into axles. Then, insert holding pins (**M**) into axles. See detail 1.

2-1 Place arm assembly (**C**) with washers (**J**) into wall plate (**A**). Insert axle assemblies shown in detail 1 through wall plate (**A**), arm assembly (**C**), and washers (**J**). Lock axles in place by aligning holding pins (**M**) with notches shown in detail 2.

2-2 Insert socket cap screws (**K**) into hole at bottom of wall support arm axles (**D**) as shown in detail 3. Tighten screw using 9/64" allen wrench (**Q**).

Note: Fit of axles (**D**) into wall plate (**A**) and arm assembly (**C**) will be tight. Gently tap into place with a hammer if necessary.



3 **To route cables through cord management channels:** Slide one mesh sleeve (**T**) over each cable. Use cable ties (**S**) to tighten mesh sleeves to cables.

3-1 Pull cords through cord management channels, leaving enough slack to allow full range of movement for swing arm assembly (**C**) as shown if figure 3.1.

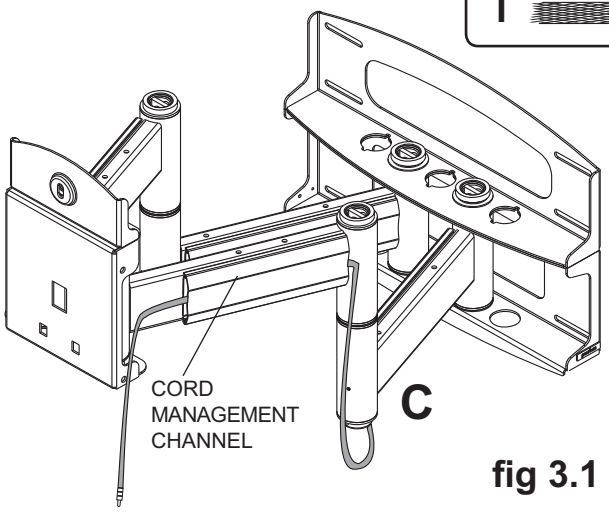


fig 3.1

3 **To route cables using cable management clips:** Snap eight cable management clips (**R**) into both swing arms (**C**) as shown in figure 3.2. Cable ties (**S**) are used with clips for cord management.

3-1 Slide one mesh sleeve (**T**) over each cable. Use cable ties (**S**) to tighten mesh sleeves to cables.

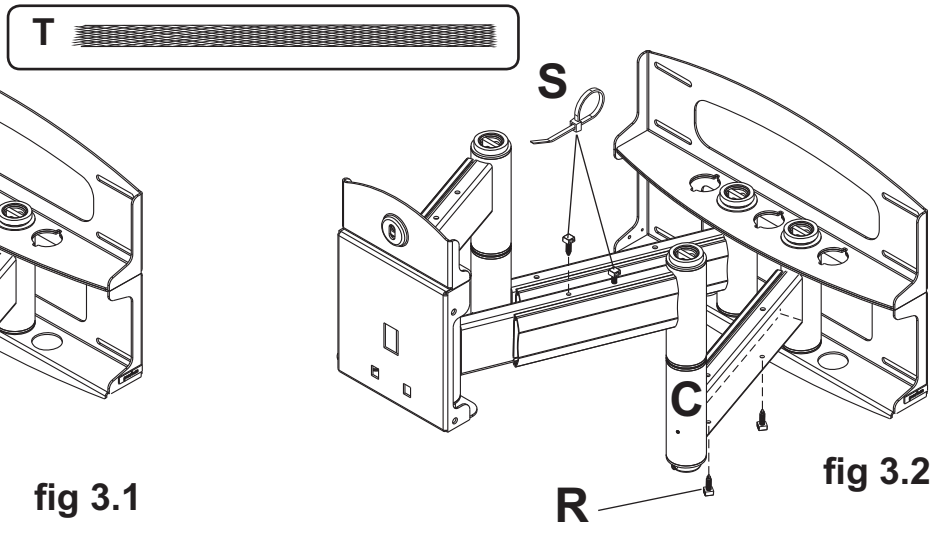
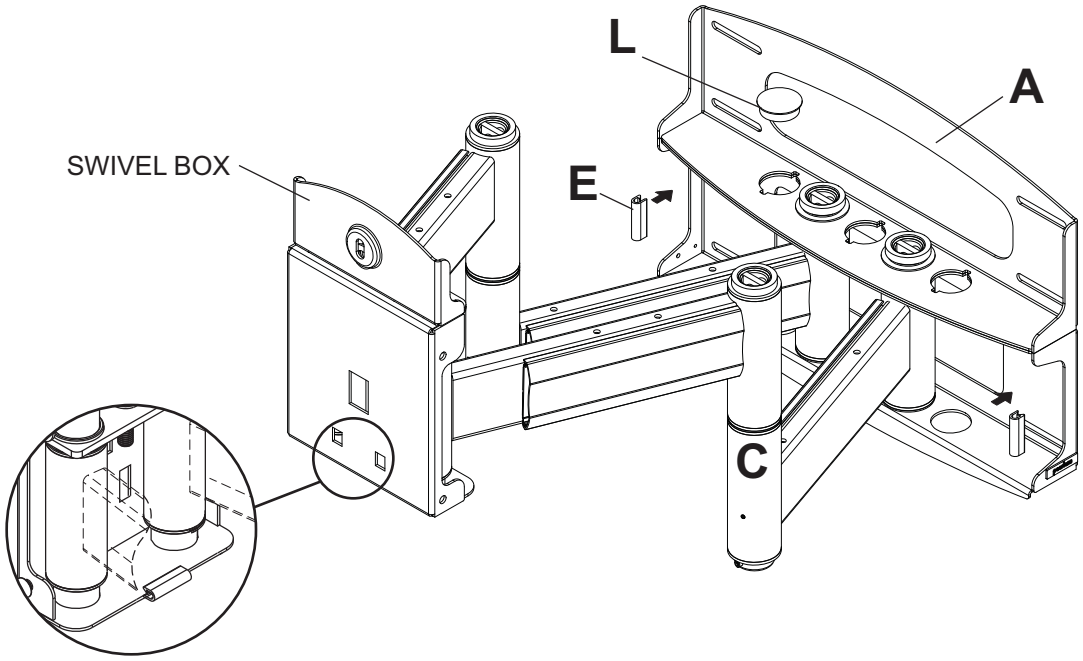


fig 3.2

ISSUED: 06-05-06 SHEET #: 202-9142-7 06-27-11

4 Attach two pieces of vinyl trim (**E**) to wall plate (**A**). Next, attach one piece of vinyl trim to bottom of swivel box on arm assembly (**C**).

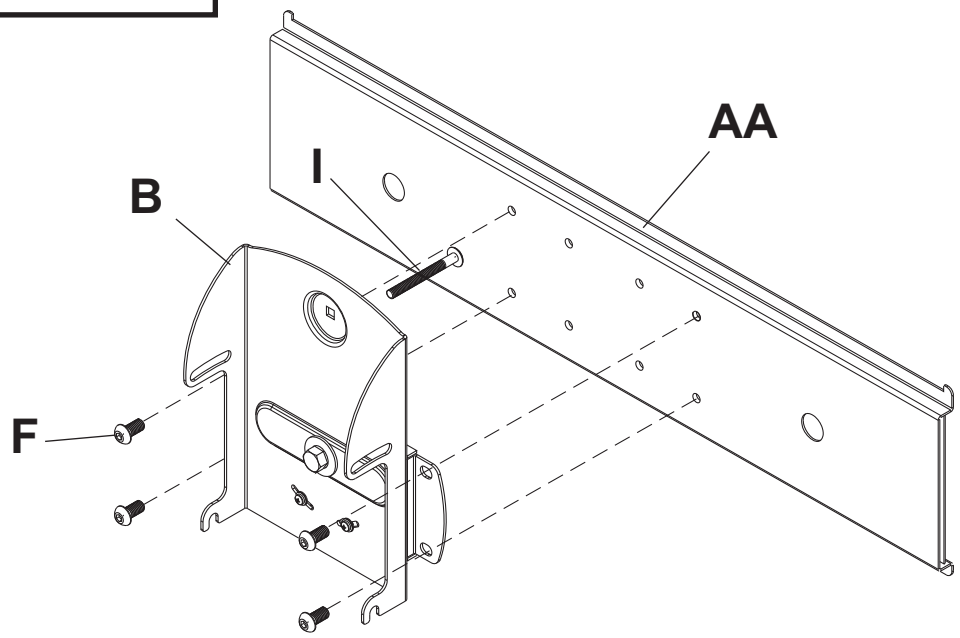
4-1 Insert one finishing cap (**L**) into each unused hole of wall plate (**A**).



5 Insert and tape carriage bolt (**I**) into top hole of tilt-roll assembly (**B**). Attach tilt-roll assembly to adapter bracket (**AA**) with four M10 socket screws (**F**). Tighten screws using 6 mm allen wrench (**U**).

CAUTION

- Do not overtighten screws! Overtightening may hinder roll option.

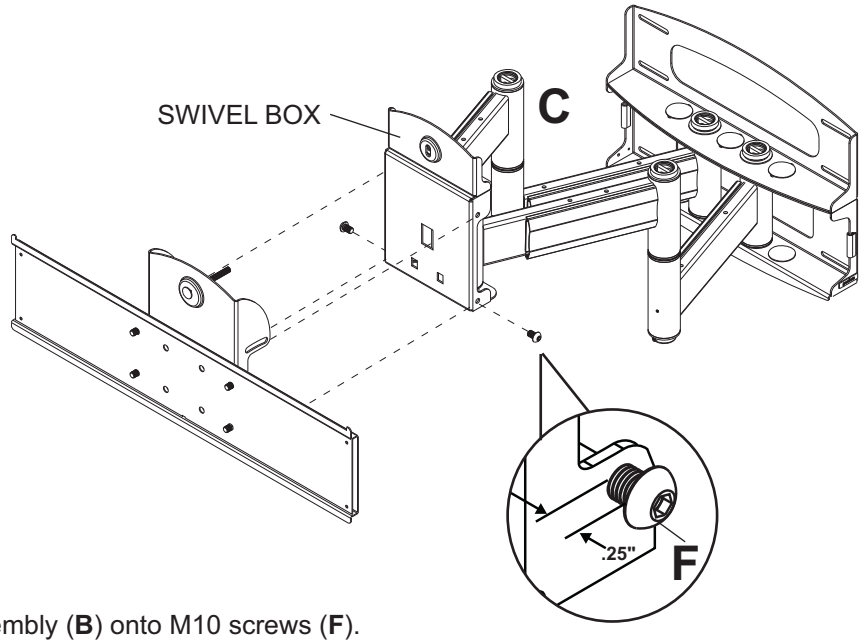


ISSUED: 06-05-06 SHEET #: 202-9142-7 06-27-11

⚠ WARNING

- Use an assistant or mechanical lifting equipment to safely lift and position the plasma TV.

6 Insert two M10 screws (**F**) into swivel box on arm assembly (**C**) as shown. Leave approx. 1/4" of exposed thread.



6-1 Hook tilt-roll assembly (**B**) onto M10 screws (**F**). Insert carriage bolt (**I**) into slot of swivel box as shown in figure 6.1. Install nylon washer (**G**) and tilt adjustment knob (**H**).

6-2 Install remaining two M10 screws (**F**) as shown in figure 6.2. HAND TIGHTEN all four M10 screws to allow for tilt adjustment. Remove tape from carriage bolt (**I**). For tilt adjustment, gently push back on the top of plasma to relieve pressure on knob. Adjust tilt to desired position and tighten tilt adjustment knob (**H**), then securely tighten all four M10 screws (**F**) using 6 mm allen wrench (**U**).

CAUTION

- After tilt is adjusted, all fasteners must be tightened. Failure to do so will result in damage to the mount.

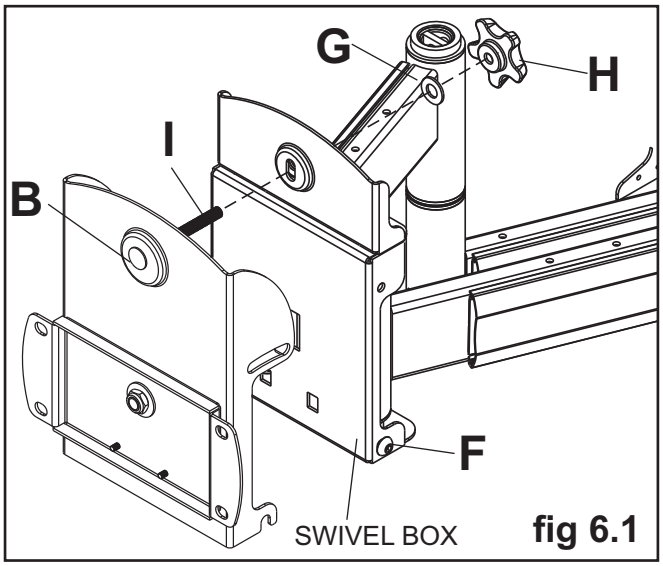


fig 6.1

Adapter bracket not shown for clarity.

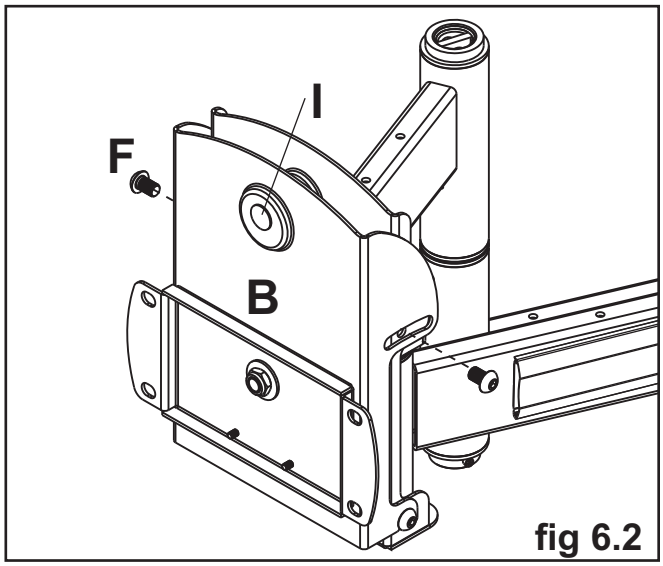


fig 6.2

Adapter bracket not shown for clarity.

ISSUED: 06-05-06 SHEET #: 202-9142-7 06-27-11

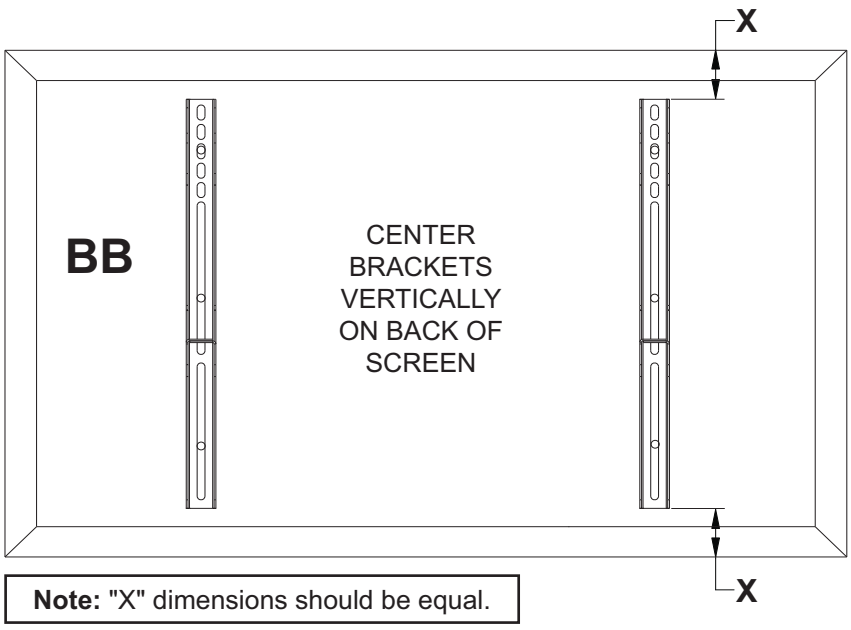
Installing Adapter Brackets

⚠ WARNING

- Tighten screws so adapter brackets are firmly attached. Do not tighten with excessive force. Overtightening can cause stress damage to screws, greatly reducing their holding power and possibly causing screw heads to become detached. Tighten to 40 in. • lb (4.5 N.M.) maximum torque.
- If screws don't get three complete turns in the screen inserts or if screws bottom out and bracket is still not tightly secured, damage may occur to screen or product may fail.

7 To prevent scratching the screen, set a cloth on a flat, level surface that will support the weight of the screen. Place screen face side down. Refer to screen manufacturers instructions or customer service, for removing any knobs, base, cover, or screw(s) on the back of the screen to prepare mounting. These need to be removed to allow the adapter brackets to be attached. Select the small, medium, large or extra large screws from the baffled fastener pack then attach adapter brackets (**BB**) to screen following figure 7.1 or 7.2.

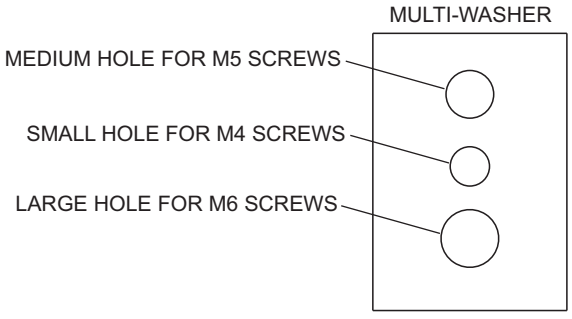
NOTE: Top and bottom mounting holes on screen must be used for attaching brackets. Verify that all holes are properly aligned, and then tighten screws using a phillips screwdriver.



Note: "X" dimensions should be equal.

Notes:

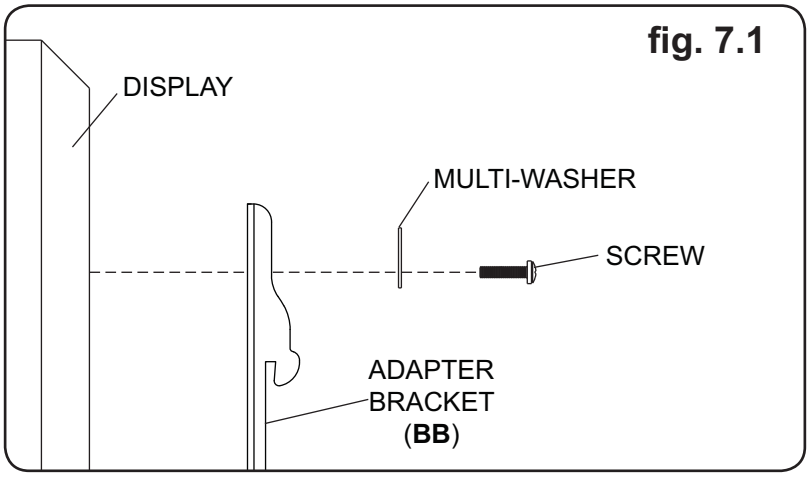
- The number of fasteners used will vary, depending upon the type of screen.
- Multi-washers and spacers may not be used, depending upon the type of screen.
- Use the corresponding hole in the multi-washer that matches your screw size as shown.



NOTE: For **flat back screens** proceed to step 7-1. For **bump-out or recessed back screen** skip to step 7-2.

For Flat Back Display

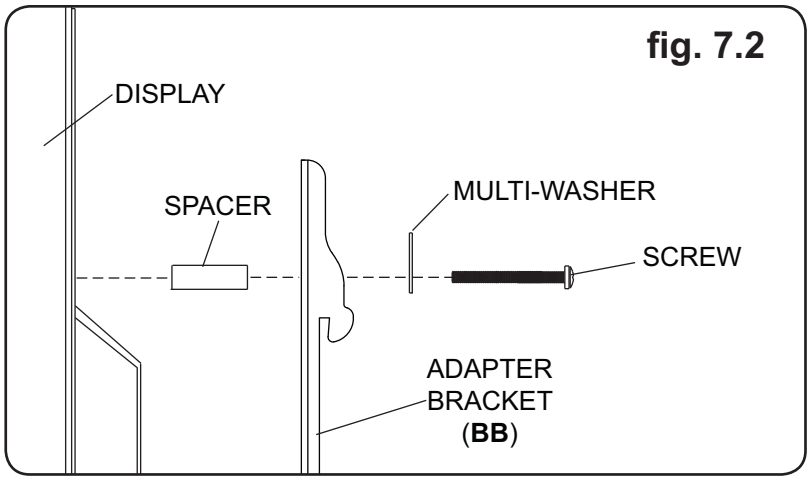
7-1 Begin with the shortest length screw, hand thread through multi-washer and adapter bracket into display as shown below. Screw must make at least three full turns into the mounting hole and fit snug into place. Do not over tighten. If screw cannot make three full turns into the display, select a longer length screw from the baffled fastener pack. Repeat for remaining mounting holes, level brackets and tighten screws.
NOTE: Spacers may not be used, depending upon the type of display.



If you have any questions, please call Peerless customer care at **1-800-865-2112**.

For Bump-out or Recessed Back Display

7-2 Begin with longer length screw, hand thread through multi-washer, adapter bracket and spacer in that order into display as shown below. Screw must make at least three full turns into the mounting hole and fit snug into place. Do not over tighten. If screw cannot make three full turns into the display, select a longer length screw from the baffled fastener pack. Repeat for remaining mounting holes, level brackets and tighten screws.



If you have any questions, please call Peerless customer care at **1-800-865-2112**.

Mounting and Removing Flat Panel Screen

⚠ WARNING

- Always use an assistant or mechanical lifting equipment to safely lift and position the plasma television.

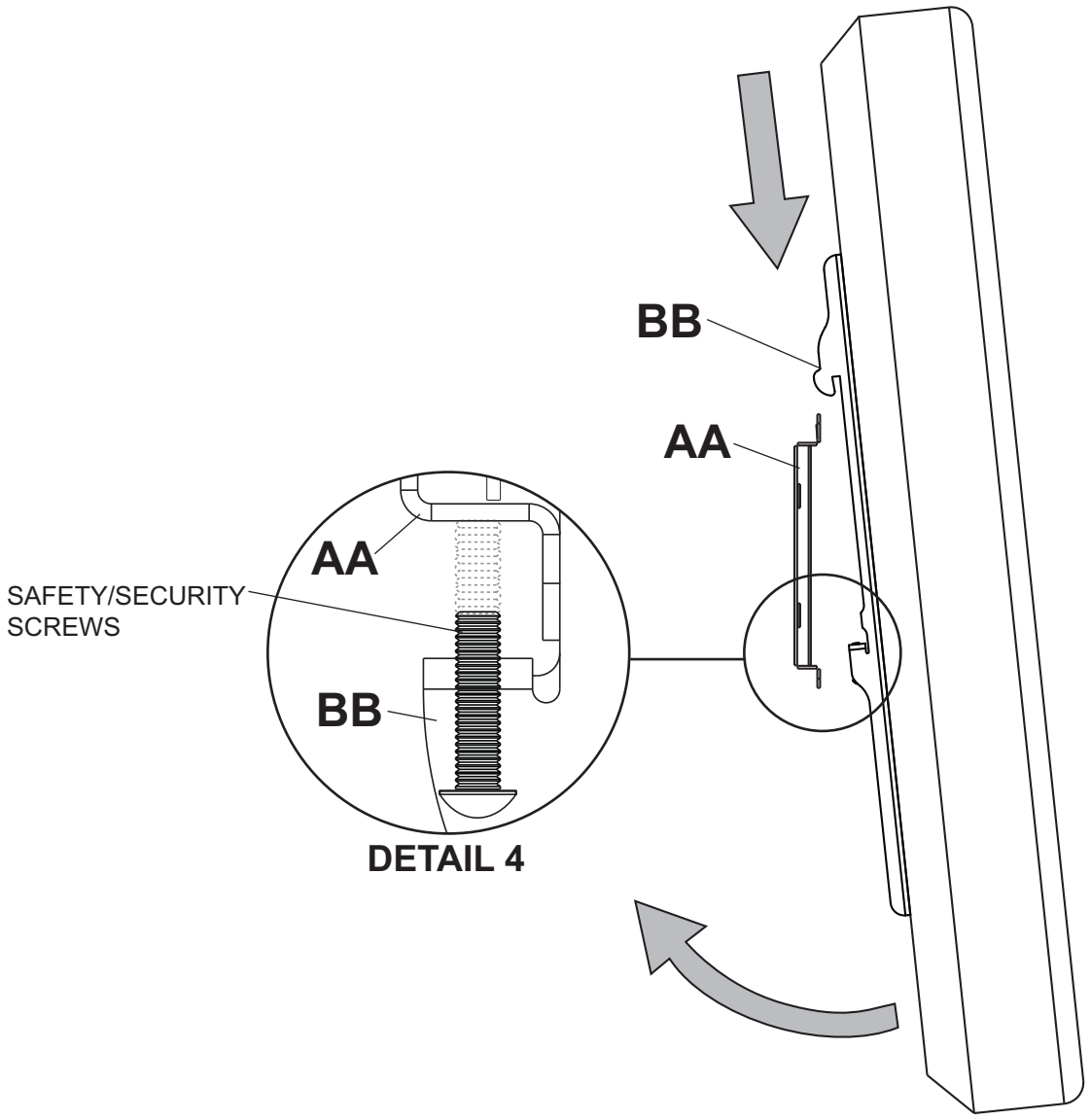
8 Refer to mount instruction sheet for attachment of adapter bracket to mount.

Hook adapter brackets (**BB**) onto adapter bracket (**AA**), then slowly swing screen in as shown. Turn screws clockwise at least six times to prevent screen from being removed as shown in detail 4. Tighten using allen wrench (**CC**).

Screen can be adjusted horizontally if desired.

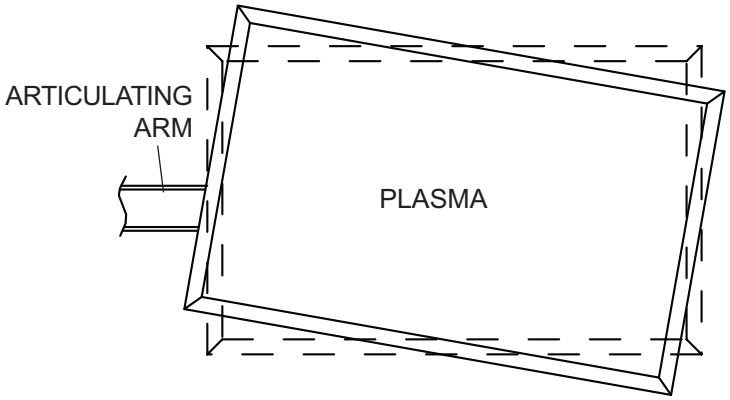
Note: To lock the screen down, tighten screws to adapter bracket as shown in detail 4.

To remove screen from mount, loosen screws, swing screen away from mount, and lift screen off of mount.



ISSUED: 06-05-06 SHEET #: 202-9142-7 06-27-11

9 Depending on the specific size & weight of the plasma, articulating swing arm may be angled at different positions, causing plasma to appear to lean sideways at different articulating positions. Tilt-roll assembly (**B**) allows plasma to be manually adjusted, so plasma can be horizontal at all positions. To adjust, gently rotate plasma by hand to desired position.



9-1 If it is too difficult to adjust roll of plasma, loosen screws shown in figure 9.1 using a phillips screwdriver.
IMPORTANT! Do not loosen or tighten screws more than 1/8 turn.

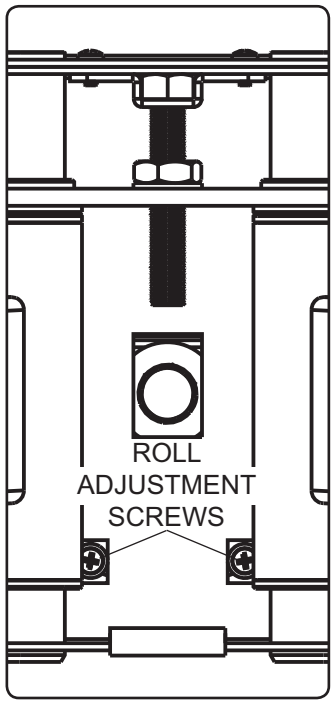


fig 9.1

10 Position of screen may be adjusted vertically up to .79" in each direction by doing the following:
- To raise screen, turn hex nut shown in figure 10.1 clockwise with 3/4" open-end wrench (not provided).
- To lower screen, turn hex nut shown in figure 10.1 counterclockwise with 3/4" open-end wrench (not provided).

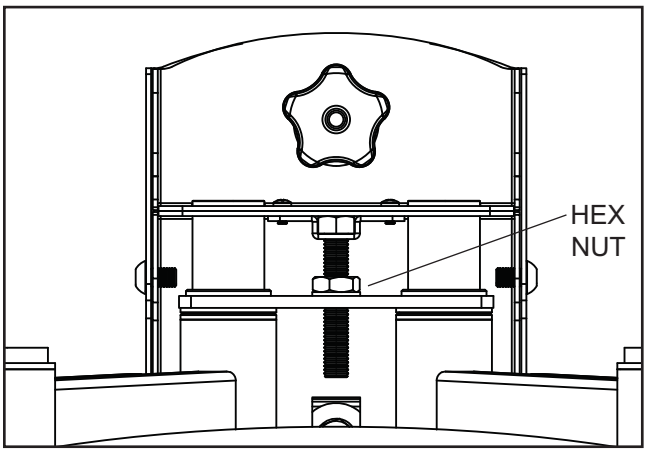


fig 10.1

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